Appendix C

Detailed Economic Evaluation of Centralized Project

Thorough economic analysis of a centralized digester project to process all of the dairy manure of the Enumclaw Plateau. Project includes digester technology for conversion of waste to biogas, organic fertilizer and environmental incentives, as well as membrane technology to produce re-use or discharge quality water and high density liquid fertilizer.

List of Exhibits

<u>No.</u>	<u>Description</u>	<u>Page</u>
C-1	Flow Diagram of Centralized Waste Conversion Project	3
C-2	Summary of Project Economic Analysis	4
C-3	Project Sensitivity to Capital and Income Deviations	5
C-4	Adjustment Worksheet for Project Customization	6
C-5	Pro-forma Operating and Capital	7
C-6	Project Income Summary	7
C-7	Income, Expense and Capital Component Breakdown	8
C-8	Detailed Sensitivity Analysis of Key Factors	9
C-9	Detailed Sensitivity Analysis with Alternate Scenario	9
C-10	Detailed Sensitivity Analysis and Critical Factor Analysis	10-14
C-11	Worksheet for Evaluation of Financing Alternatives	15
C-12	Evaluation of an Ownership Structure Alternative	16
C-13	Biogas Energy Production and Utilization	17
C-14	Digester Material Balances Table (Part 1)	18
C-15	Exhibit C-14– Digester Material Balances Table (Part 2)	19
C-16	Estimating Land Application Cost for Enriched Digester Effluent	20
C-17	Liquid Handling Cost Comparison	21
C-18	Estimating Inbound Transportation Costs	21
C-19	Methodology for Estimating Carbon Credits	22
C-20	Site Layout Example for Estimating Acreage Requirements	23
C-21	Site Map for Centralized Waste Conversion Project	24
C22	Aerial Photo of Potential Project Site	25

Exhibit C -1 – Flow D	iagram of Central	lized Waste Conver	sion Project	
	Detailed Economic	Evaluation of Central	lized Project	Annendix C - 3

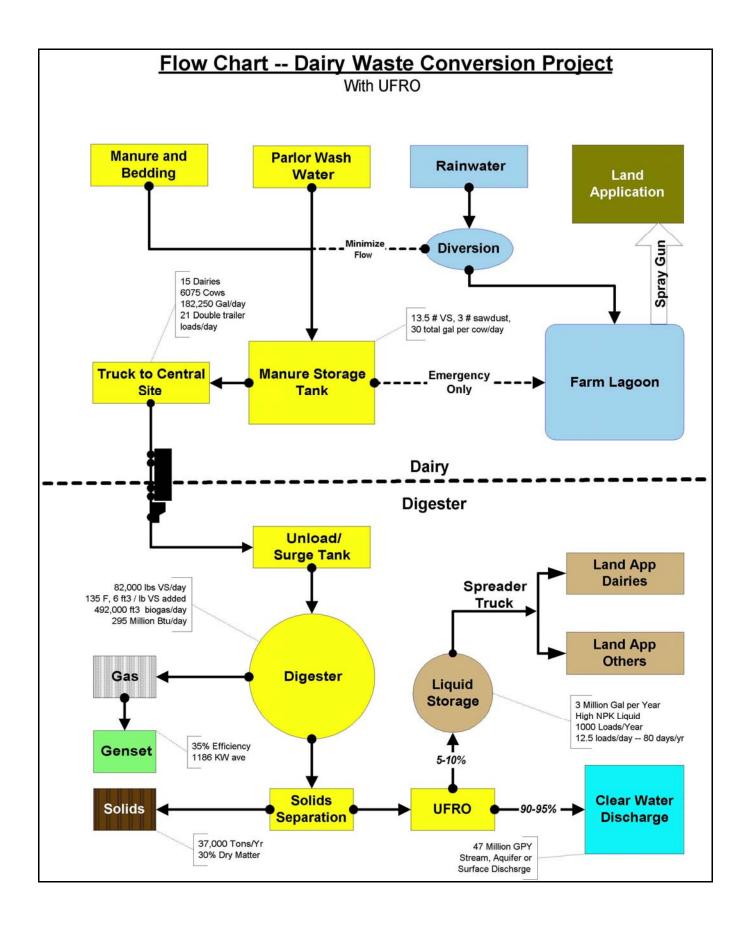


Exhibit C-2 – Summar	y of Project Econ	omic Analysis	

ECONOMIC FEASIBILITY OF BIOGAS RECOVERY AND UTILIZATION

Project Name: King County Central Digester with UFRO

Dairy --- Thermophilic 13.84%

Project Summary

This project uses a heated digester at 135 degrees F. It requires a 1482 KW generator. Electricity which is sold is valued at \$0.035 per Kwh. In addition, 0% of the recoverable generator heat is utilized at a value of \$5 per MMBtu. The project requires \$7592078 capital investment and returns \$1135988 annually giving a 13.8% return on investment and a payback in 8.6 years at 5.5% interest.

Project Description

State: Washington Climate Zn:

Enterprise: Dairy
Enterprise Units: 6,075 Milkers
Digester Type: Thermophilic

 Daily VS
 82,013
 lbs

 TS %
 8.00 %

 Daily Biogas
 492
 000 Ft3

 Daily Methane Ener
 295
 MMBtu

 Ave Elect Prod
 1186
 KW

 Ave Elect Prod
 1186 KW

 Digester Vessel
 2,503 000 gal

 Fertilizer Sales
 36,568 Tons

Capita	al Costs		Returns						
30			Service record and the			Monthly	Annua		
Digester Generator Digester & CoGen Fertilizer Plant Capital to Force +/- Other Capital Items Engineering&Contig CHP Credit N Total Capital (Using Worksheet	o 🔻	\$2,986,033 \$0 \$0 \$3,081,352 \$1,524,693 \$0 \$7,592,078	Offset Electric Cost Sale of Electricity Offset Demand Charge Recovered Heat Value Gas - On-Site Use Gas - Sale +/- Income to Balance +/- Other Value Total Savings GenSet O&M +/- Adjustments Net Benefit	94.500.500.0	7kwh	\$0 \$30,292 0 0 0 0 138,151 168,443 (65,122) \$94,666	\$0 363,510 0 0 0 0 1,657,807 2,021,317 (103,860 (781,469 \$1,135,988		
2	_NEW No. 12		100				Paybaci		
Investme	nt Analysis	5	What If ??	111		R.O.J.	Yr @ 5.5%		
R.O.I. (Internal Rate of F Payback Years @ @ @ Net Present Value 20 yr	4% 5.5% 8%	13.84% 7.93 8.56 9.94 \$5,983,413	Decrease Capital Costs by 2 Increase Net Benefits by 25 Both the Above????			19.37% 18.02% 24.63%	6.02 6.50 4.65		

Exhibit C-3 – Project Sensitivity to Capital and Income Deviations

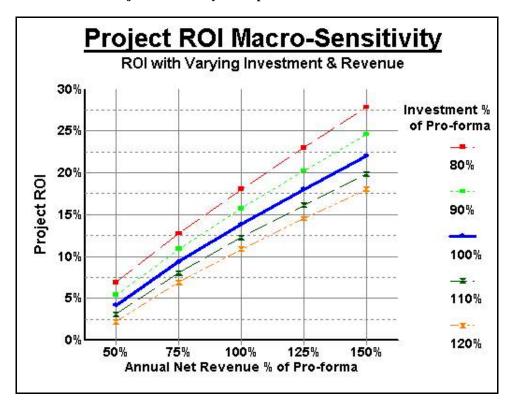


Exhibit C-4 – Adjustme	ent Worksheet for Project Customization	
	Datailed Economic Evaluation of Controlized Project	Amandin C. 10

Adjustments to Income, Expense and Capital Costs Dairy --- Thermophilic 13.84%

				Cost/V	alue
apital Cost	Number			Each	Amount
Transport Trailers	15]	_@ F	\$15,000	\$225,000
Transport Tractors	5	1	<u></u>	\$25,000	\$125,000
Fertilizer Plant Fixed	1	1	≽⊢	\$500,000	\$500,000
Fertilizer Plant Variable	36,568	Tons	999	\$20	\$731,352
Secondary Water Treatement	1	1.50.5		\$500,000	\$500,000
Site and Preparation	1	1	@	\$500,000	\$500,000
PSE Interconnect & Lines	1	1	ಹ⊩	\$450,000	\$450,000
Spreader Truck	2		999	\$25,000	\$50,000
		i	ேட	Total	\$3,081,352
come	0.075	1	۰.	***	*040.00
Processing Fee	6,075	Milkers	@ _	\$40.00	\$243,000
Organic Residuals Sale	36,568	Tons	@	\$20.00	\$731,35
Renewable Energy PTC	10,385,992	KWHr	999	\$0.018	\$186,948
Carbon Credits	38,576		@ [\$4.00	\$154,304
Renewable Attributes Premium	10,385,992	KWHr	@_	\$0.020	\$207,720
Nutrient Rich Water (75%)	1,681	000 G	@ _	\$80,00	\$134,483
perating Cost		ļ	J	Total	\$1,657,807
	00.500	-	$_{\sim}$	25.00	****
Residuals Handling (not bagging)	36,568	Tons	@	\$5.00	\$182,838
Facility Operation exc GenSet	254 004	2 5	\sim \vdash	\$350,000	\$350,000
Transport Cost			@ <u></u>	\$0.60	\$151,131
Water Processing Cost	42,586		99	\$1.50	\$63,879
Liquid Application	2,241	000 G	@	\$15.00	\$33,621
		}		Total	\$781,469

Exhibit C-5 – Pro-for	ma Operating and Capital	
	Detailed Economic Evaluation of Centralized Project	Appendix C - 13

Proforma Investment and Operating Statement

Dairy --- Thermophilic 13.84%

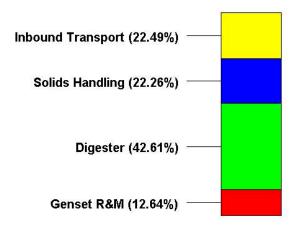
	47.77	D 193074			
Income			Expense		
Electricity			Operations		
Net metered Power	\$0	0%	Genset R&M	\$103,860	12%
Demand	\$0	0%	Digester Operations	\$350,000	40%
Sale to Utility	\$363,510	18%	Solid Residuals Handling	\$182,838	219
8573			Water Treatment	\$63,879	79
Power Based Incentive			Transportation		
Production Tax Credit	\$186,948	9%	Waste Inbound Hauling	\$184,751	219
Renewable Attributes	\$207,720	10%		49 1A	
	Descuore t rescuo		Total Expenses	\$885,329	100%
Carbon Credits	\$154,304	8%	Net Revenues	\$1,135,988	56%
User Fee	\$243,000	12%	Capital		
			Digester & Equipment	\$1,965,102	26%
Nutrient Value			GenSet & Interconnect	\$1,470,931	19%
Residual Solids	\$731,352	36%	Solids Handling	\$1,231,352	16%
Liquid Fraction	\$134,483	7%	Rolling Stock	\$350,000	5%
53			Land and Development	\$500,000	79
Total Revenues	\$2,021,317	100%	Engineering & Conting.	\$1,524,693	20%
			Other	\$550,000	7%
			Total	\$7,592,078	100%

Exhibit C-6 – Project Income Summary

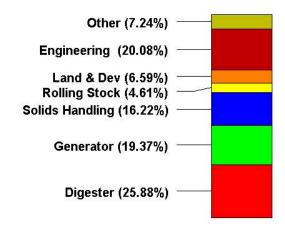
Income Items Quantity and Price											
	<u>Units</u>		<u>Value</u>	Annual							
Electicity Sale	10,386	MWh @	\$35.00	\$363,510							
Production Tax Credit	10,386	MWh @	\$18.00	\$186,948							
Renewable Attributes	10,386	MWh @	\$20.00	\$207,720							
Carbon Credits	38,576	M Ton @	\$4.00	\$154,304							
User Fee	6,075	Cows @	\$40.00	\$243,000							
Solid Organic Residuals	36,568	Tons @	\$20.00	\$731,352							
Liquid Organic Fertilizer	1,681	000 gal @	\$80.00	\$134,483							
				\$2,021,317							

Exhibit C-7 – Income, Expense and Capital Component Breakdown

Expense Categories



Capital Items



Economic Micro-Sensitivity of Key Project Factors												
		Dairy Ther	mophilic 13.84%	6								
							Value for					
	Base		Change	E	ffect on		ROI Target**					
Factor	Value		Ву	Income	Capital	ROI	10%					
Project Size	6,075	Milkers	1200	\$293,528	\$532,223	2.96%	4588					
External Power Price	\$0.035	Per Kwh	\$0.005	\$51,930		0.78%	\$0.012					
Renewable Attributes Credit	\$0.020	Per Kwh	\$0.005	\$51,930		0.78%	(\$0.003)					
Carbon Credits	\$4.00	Per Ton	\$0.50	\$19,288		0.29%	(\$2.31)					
Organics Sale Price	\$20.00	Per Ton Bulk	\$5.00	\$182,838		2.72%	\$13.34					
Manure Transport Cost	\$0.60	Per Ton	\$0.10	(\$25,188)		-0.38%	\$1.57					
User Fee	40.00	Per Milker	\$5.00	\$30,375		0.46%	\$4.32					
Liquid Fertilizer	\$80.00	Per 000 Gal	\$10.00	\$16,810		0.25%	(\$65.18)					
Gas Production Factor	6.00	Ft3 / #VS	0.50	\$67,385	\$86,451	0.81%	4.04					
GenSet Efficiency	35%	Annual	1%	\$18,695	\$29,640	0.22%	20%					
Project Total Capital		One Time	\$500,000		\$500,000	-1.07%	\$2,161,019					
Project Net Revenue		One Time	\$50,000	\$50,000		0.75%	(\$243,840)					

Exhibit C-9 – Detailed Sensitivity Analysis with Alternate Scenario

		Dainy Ther	mophilic 13.84	%							
							Value for				
	Base		Change	E	ffect on		ROI Target [™]	New	E	ffect on	
Factor	Value		Ву	Income	Capital	ROI	10%	Value	Income	Capital	RC
Project Size	6,075	Milkers	1200	\$293,528	\$532,223	2.96%	4588	6500	\$103,958	\$188,496	1.05
External Power Price	\$0.035	Per Kwh	\$0.005	\$51,930		0.78%	\$0.012	\$0.035			
Renewable Attributes Credi	\$0.020	Per Kwh	\$0.005	\$51,930		0.78%	(\$0.003)	\$0.010	(\$103,860)		-1.57
Carbon Credits	\$4.00	Per Ton	\$0.50	\$19,288		0.29%	(\$2.31)	\$4.00			
Organics Sale Price	\$20.00	Per Ton Bulk	\$5.00	\$182,838		2.72%	\$13.34	\$25.00	\$182,838		2.729
Manure Transport Cost	\$0.60	Per Ton	\$0.10	(\$25,188)		-0.38%	\$1.57	\$0.60			
User Fee	40.00	Per Milker	\$5.00	\$30,375		0.46%	\$4.32	\$25,00	(\$91,125)		-1.389
Liquid Fertilizer	\$80.00	Per 000 Gal	\$10.00	\$16,810		0.25%	(\$65.18)	\$80.00			
Gas Production Factor	6.00	Ft3 / #VS	0.50	\$67,385	\$86,451	0.81%	4.04	6.50	\$67,385	\$86,451	0.819
GenSet Efficiency	35%	Annual	19%	\$18,695	\$29,640	0.22%	20%	33%	(\$37,390)	(\$59,281)	-0.439
Project Total Capital		One Time	\$500,000		\$500,000	-1.07%	\$2,161,019				
Project Net Revenue		One Time	\$50,000	\$50,000		0.75%	(\$243,840)				
** All other factors being unc	hanged						Total Adjustm	ent	\$121,807	\$215,666	1.219
							Original Proje	ect	\$1,135,988	\$7,592,078	13.849
							Estimated Nev		\$1,257,795	\$7,807,744	15.05

The table above illustrates the ability to evaluate an entirely new scenario within the micro-sensitivity table. After the initial analysis determines the effect of varying each factor independently, the investigator can then combine entirely new values for any or all of the variable factors in the leftmost column. The new value is entered in the column identified "New Value" and the estimated effect of that change on the economics of the project is shown in the columns to the right. The individual effects from the modified factors are then totaled at the bottom and the combined effect of the new scenario is estimated. This is only an estimate because it assumes complete linearity for all of the modified variables. Experience has shown that the estimate will be very close to the value calculated by making the same changes to the main model <u>unless</u> major changes are made to certain technical factors which would change capacities and material volumes.

Economic Micro-Sensitivity of Key Project Factors

		213	Value	of Factor N	Necessary fo	or Specifi	ed ROI Tar	get **
	Base					Base		
Factor	<u>Value</u>		<u>6.0%</u>	8.0%	<u>10.0%</u>	13.8%	<u>15.0%</u>	20.0%
Project Size	6,075	Milkers	3639	4080	4588	6,075	6709	9137
External Power Price	\$0.035	Per Kwh	(\$0.010)	\$0.000	\$0.012	\$0.035	\$0.045	\$0.077
Renewable Attributes Credit	\$0.020	Per Kwh	(\$0.025)	(\$0.015)	(\$0.003)	\$0.020	\$0.030	\$0.062
Carbon Credits	\$4.00	Per Ton	(\$8.22)	(\$5.35)	(\$2.31)	\$4.00	\$6.04	\$15.70
Organics Sale Price	\$20.00	Per Ton Bulk	\$7.07	\$10.14	\$13.34	\$20.00	\$22.16	\$32.35
Manure Transport Cost	\$0.60	Per Ton	\$2.57	\$2.03	\$1.57	\$0.60	\$0.29	(\$1.02)
User Fee	40.00	Per Milker	(\$37.38)	(\$17.75)	\$4.32	40.00	\$53.38	\$111.79
Liquid Fertilizer	\$80.00	Per 000 Gal	(\$199.23)	(\$134.95)	(\$65.18)	\$80.00	\$126.64	\$337.84
Gas Production Factor	6.00	Ft3 / #VS	2.08	2.91	4.04	6.00	6.74	10.31
GenSet Efficiency	35%	Annual	6%	12%	20%	35%	42%	69%
Project Total Capital Deviation	\$0.00	One Time	\$5,877,447	\$3,727,033	\$2,161,019	\$0.00	(\$434,808)	(\$2,026,841)
Project Net Revenue Deviation	\$0.00	One Time	(\$470,389)	(\$360,911)	(\$243,840)	\$0.00	\$82,150	\$443,963

^{**} All other factors remaining unchanged at their base value.

Critical Factor Analysis Factor -- Total Capital Investment Description -- Total investment in the project. **Value** ROI **Payback Notes** \$6.00 18.3% 6.41 Yrs \$6.50 16.7% 7.06 Yrs \$7.00 15.3% 7.73 Yrs \$7.50 8.43 Yrs 14.1% \$7.59 13.8% 8.56 Yrs Base

13.0%

12.0%

11.1%

10.3%

9.5%

8.8%

8.2%

9.15 Yrs

9.90 Yrs

10.69 Yrs

11.51 Yrs

12.36 Yrs

13.26 Yrs

14.20 Yrs

\$8.00

\$8.50

\$9.00

\$9.50

\$10.00

\$10.50

\$11.00

Critical Factor Analysis Deviation Effect on Feasibility 20 20% 15% Base Case 15 Payback Years ₽ 10% 5% 5 0% \$10 \$6 \$11 **Total Capital Investment -- \$Millions** --- ROI - Payback

Exhibit C-10 (cont.) – Detailed Sensitivity Analysis and Critical Factor Analysis

Critical Factor Analysis

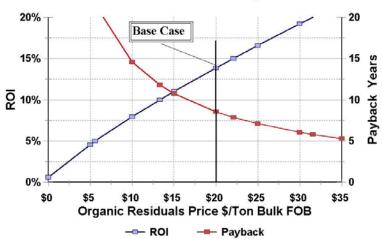
Factor -- Organic Residuals Value -- \$/Ton

Description -- Average selling price for the organic residuals, bulk FOB the site.

	<u>Value</u>	ROI	<u>Payback</u>	<u>Notes</u>
	\$0.00	0.6%		
	\$5.00	4.6%	23.17 Yrs	
	\$5.59	5.0%	21.61 Yrs	
	\$10.00	7.9%	14.59 Yrs	
	\$13.32	10.0%	11.80 Yrs	
	\$15.00	11.0%	10.77 Yrs	
	\$20.00	13.8%	8.56 Yrs	Base
13	\$22.10	15.0%	7.88 Yrs	
	\$25.00	16.6%	7.11 Yrs	
	\$30.00	19.2%	6.09 Yrs	
	\$31.58	20.0%	5.82 Yrs	
	\$35.00	21.8%	5.32 Yrs	

Critical Factor Analysis

Deviation Effect on Feasibility



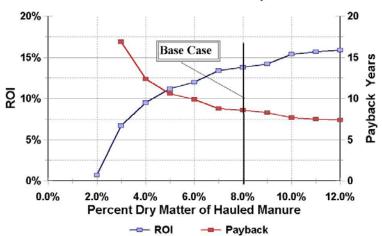
Critical Factor Analysis

Factor -- Percent Dry Matter of Hauled Manure

Description -- Dry matter content of the material hauled to and entering the digester, inverse of moisture content.

<u>Value</u>	ROI	<u>Payback</u>	<u>Notes</u>
1%		Yrs	
2%	0.7%	Yrs	
3%	6.7%	16.90 Yrs	
4%	9.5%	12.40 Yrs	
5%	11.2%	10.60 Yrs	
6%	12.0%	9.90 Yrs	
7%	13.4%	8.80 Yrs	
8%	13.8%	8.60 Yrs	Base
9%	14.2%	8.30 Yrs	
10%	15.4%	7.70 Yrs	
11%	15.7%	7.50 Yrs	
12%	15.9%	7.40 Yrs	

Critical Factor Analysis



Critical Factor Analysis

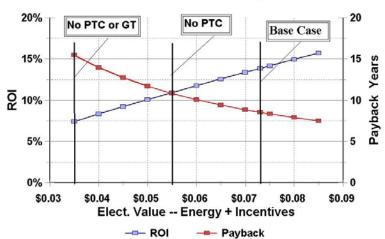
Factor -- Electricity Value -- Energy + Incentives

Description -- Base electric sale price plus incentives which are tied to electricity production (PTC and Green Tags).

<u>Value</u>	ROI	<u>Payback</u>	<u>Notes</u>
\$0.035	7.4%	15.47 Yrs	
\$0.040	8.3%	13.96 Yrs	
\$0.045	9.2%	12.73 Yrs	
\$0.050	10.1%	11.70 Yrs	
\$0.055	10.9%	10.83 Yrs	
\$0.060	11.8%	10.08 Yrs	
\$0.065	12.6%	9.43 Yrs	
\$0.070	13.4%	8.87 Yrs	
\$0.073	13.8%	8.56 Yrs	Base
\$0.075	14.2%	8.36 Yrs	-
\$0.080	14.9%	7.92 Yrs	
\$0.085	15.7%	7.51 Yrs	

Critical Factor Analysis

Deviation Effect on Feasibility



Critical Factor Analysis

Factor -- Carbon Credit Value \$/MT CO2e

Description -- Value placed on GHG reductions, per metric ton carbon dioxide equivalency.

<u>Value</u>	ROI P	ayback		<u>Notes</u>
\$0.00	11.5%	10.35	yrs	
\$1.00	12.1%	9.83	yrs	
\$2.00	12.7%	9.37	yrs	
\$3.00	13.3%	8.94	yrs	
\$4.00	13.8%	8.56	yrs	Base
\$5.00	14.4%	8.20	yrs	
\$6.00	15.0%	7.88	yrs	
\$7.00	15.6%	7.58	yrs	
\$8.00	16.1%	7.30	yrs	
\$9.00	16.7%	7.05	yrs	
\$10.00	17.3%	6.81	yrs	
\$11.00	17.8%	6.58	yrs	

Critical Factor Analysis

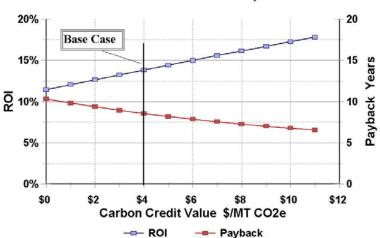
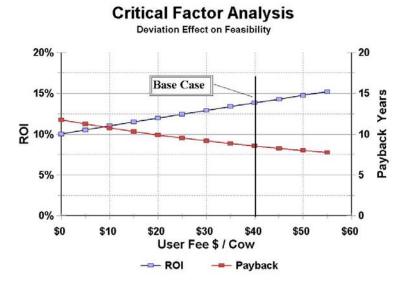


Exhibit C-10 (cont.) – Detailed Sensitivity Analysis and Critical Factor Analysis

Critical Factor Analysis Factor -- User Fee \$ / Cow Description -- Fee paid by the dairymen for the services provided, covers cost of transport and liquid handling. **Value** ROI <u>Notes</u> <u>Payback</u> \$0.00 10.0% 11.77 Yrs \$5.00 10.5% 11.24 Yrs \$10.00 11.0% 10.76 Yrs \$15.00 11.5% 10.31 Yrs \$20.00 12.0% 9.91 Yrs \$25.00 12.4% 9.53 Yrs \$30.00 12.9% 9.18 Yrs \$35.00 13.4% 8.86 Yrs \$40.00 13.8% 8.56 Yrs Base 14.3% \$45.00 8.28 Yrs \$50.00 14.8% 8.01 Yrs \$55.00 7.77 Yrs 15.2%



Critical Factor Analysis

Factor -- Inbound Manure Transport Cost \$/Ton

Description -- Cost per ton for operating the mechanism for delivering waste to the central site.

<u>Value</u>	ROI	<u>Payback</u>	<u>Notes</u>
\$0.40	14.6%	8.10 Yrs	
\$0.50	14.2%	8.32 Yrs	
\$0.60	13.8%	8.56 Yrs	Base
\$0.70	13.5%	8.81 Yrs	
\$0.80	13.1%	9.07 Yrs	
\$0.90	12.7%	9.35 Yrs	
\$1.00	12.3%	9.65 Yrs	
\$1.10	11.9%	9.96 Yrs	
\$1.20	11.5%	10.30 Yrs	
\$1.30	11.1%	10.67 Yrs	
\$1.40	10.7%	11.06 Yrs	
\$1.50	10.3%	11.48 Yrs	
	\$0.40 \$0.50 \$0.60 \$0.70 \$0.80 \$0.90 \$1.00 \$1.10 \$1.20 \$1.30 \$1.40	\$0.40 14.6% \$0.50 14.2% \$0.60 13.8% \$0.70 13.5% \$0.80 13.1% \$0.90 12.7% \$1.00 12.3% \$1.10 11.9% \$1.20 11.5% \$1.30 11.1% \$1.40 10.7%	\$0.40 14.6% 8.10 Yrs \$0.50 14.2% 8.32 Yrs \$0.60 13.8% 8.56 Yrs \$0.70 13.5% 8.81 Yrs \$0.80 13.1% 9.07 Yrs \$0.90 12.7% 9.35 Yrs \$1.00 12.3% 9.65 Yrs \$1.10 11.9% 9.96 Yrs \$1.20 11.5% 10.30 Yrs \$1.30 11.1% 10.67 Yrs \$1.40 10.7% 11.06 Yrs

Critical Factor Analysis



Exhibit C-10 (cont.) – Detailed Sensitivity Analysis and Critical Factor Analysis

Critical Factor Analysis

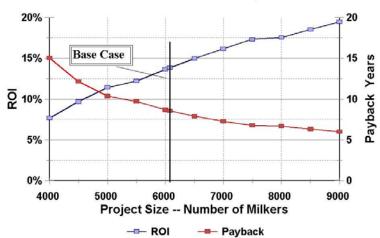
Factor -- Project Size -- Number of Milkers

Description -- Number of milking cows whose manure enters the digester.

	<u>Value</u>	ROI	Payback	<u>Notes</u>
	4,000	7.7%	15.02 Yrs	
	4,500	9.7%	12.17 Yrs	
	5,000	11.4%	10.36 Yrs	
	5,500	12.2%	9.70 Yrs	
	6,000	13.6%	8.69 Yrs	
	6,075	13.8%	8.56 Yrs	Base
25	6,500	15.0%	7.91 Yrs	
	7,000	16.2%	7.29 Yrs	
	7,500	17.3%	6.79 Yrs	
	8,000	17.5%	6.70 Yrs	
	8,500	18.5%	6.32 Yrs	
	9,000	19.4%	6.00 Yrs	
	3,000		0.00	

Critical Factor Analysis

Deviation Effect on Feasibility



Critical Factor Analysis

Factor -- Biogas Conversion Factor FT3/#VS

Description -- Cubic feet of biogas produced for each pound of volatile solids entering the digester.

<u>Value</u>	ROI	<u>Payback</u>	<u>Notes</u>
5.00	12.1%	9.78 Yrs	
5.25	12.6%	9.43 Yrs	
5.50	13.0%	9.12 Yrs	
5.75	13.4%	8.83 Yrs	
6.00	13.8%	8.56 Yrs	Base
6.25	14.3%	8.31 Yrs	
6.50	14.7%	8.07 Yrs	
6.75	15.1%	7.85 Yrs	
7.00	15.4%	7.65 Yrs	
7.25	15.8%	7.46 Yrs	
7.50	16.2%	7.28 Yrs	
7.75	16.6%	7.11 Yrs	
	5.00 5.25 5.50 5.75 6.00 6.25 6.50 6.75 7.00 7.25 7.50	5.00 12.1% 5.25 12.6% 5.50 13.0% 5.75 13.4% 6.00 13.8% 6.25 14.3% 6.50 14.7% 6.75 15.1% 7.00 15.4% 7.25 15.8% 7.50 16.2%	5.00 12.1% 9.78 Yrs 5.25 12.6% 9.43 Yrs 5.50 13.0% 9.12 Yrs 5.75 13.4% 8.83 Yrs 6.00 13.8% 8.56 Yrs 6.25 14.3% 8.31 Yrs 6.50 14.7% 8.07 Yrs 6.75 15.1% 7.85 Yrs 7.00 15.4% 7.65 Yrs 7.25 15.8% 7.46 Yrs 7.50 16.2% 7.28 Yrs

Critical Factor Analysis

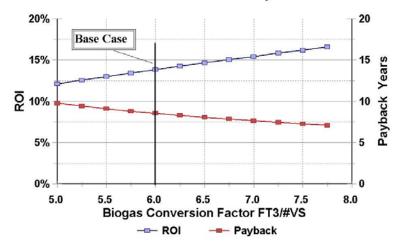


Exhibit C-11- Worksheet for Evaluation of Financing Alternatives						
	Detailed Economic	Evaluation of Centralized Project	Appendix C - 25			